ELSEVIER

Solar Energy Materials and Solar Cells 32 (1994) 479–482

Solar Energy Materials and Solar Cells

Author Index

Acharya, P.K., H.D. Banerjee, K.L. Chopra, S.C. Saha and S. Ray, Effect of hydrogen dilution in silane on light induced degradation of hydrogenated amorphous silicon films for solar photovoltaic applications 32 (1994) 21
Alfano, R.R., see Qiang, H. 32 (1994) 405
Altındal, Ş., see Özdemir, S. 32 (1994) 115
Ameziane, E.L., see Chahboun, N. 32 (1994) 213
Andersson, K.E., M. Veszelei and A. Roos, Zirconium nitride based transparent heat mirror coatings—preparation and characterisation 32 (1994) 199
Argazzi, R., see Bignozzi, C.A. 32 (1994) 229
Argazzi, R., see Smestad, G. 32 (1994) 259
Arntz, F.O., see Goldner, R.B. 32 (1994) 421
Aspnes, D.E., Fourier critical point analysis: extension to Gaussian lineshapes 32 (1994) 413

Banerjee, H.D., see Acharya, P.K. 32 (1994) 21
Baños, L., see Sebastian, P.J. 32 (1994) 159
Barrera, R.G. and C.I. Mendoza, Three-particle correlations in the optical properties of granular composites 32 (1994) 463
Bekkay, T., see Chahboun, N. 32 (1994) 213
Bergmann, R., see Zheng, G.F. 32 (1994) 129
Bignozzi, C., see Smestad, G. 32 (1994) 259
Bignozzi, C.A., R. Argazzi, M.T. Indelli and F. Scandola, Design of supramolecular systems for spectral sensitization of semiconductors 32 (1994) 229
Böer, K.W. and J. Piprek, Donor–acceptor pairs to limit V_{oc}-improvement of photo-diodes 32 (1994) 395

Campos, J., see Sebastian, P.J. 32 (1994) 159
Chahboun, N., K. El Assali, A. Khiara, E.L. Ameziane and T. Bekkay, Growth of $CuAlTe_2$ films by RF sputtering 32 (1994) 213
Champness, C.H. and C.H. Chan, Influence of certain defects on the behaviour of photovoltaic cells 32 (1994) 53
Chan, C.H., see Champness, C.H. 32 (1994) 53
Chopra, K.L., see Acharya, P.K. 32 (1994) 21
Claflin, B., see Fritzsche, H. 32 (1994) 383
Cocivera, M., see Wynands, H. 32 (1994) 187

Dai, X., see Zheng, G.F. 32 (1994) 129
Derdour, M., G. Furlan and D. Nobili, Aggregation equilibria in arsenic doped silicon 32 (1994) 435
Dinh, V.T., see Gruenbaum, P.E. 32 (1994) 61
Dubey, A.R., see Mahapatra, P.K. 32 (1994) 29
Dugas, J., 3D modelling of a reverse cell made with improved multicrystalline silicon wafers 32 (1994) 71

El Assali, K., see Chahboun, N. 32 (1994) 213

Fang, S.F., see Qiang, H. 32 (1994) 405
Fitzmaurice, D., Using spectroscopy to probe the band energetics of transparent nanocrystalline semiconductor films 32 (1994) 289
Fritzsche, H., B. Pashmakov and B. Claflin, Reversible changes of the optical and electrical properties of amorphous InO_x by photoreduction and oxidation 32 (1994) 383
Furlan, G., see Derdour, M. 32 (1994) 435

Glosser, R., see Stevens, P.D. 32 (1994) 429
Goldner, R.B., F.O. Arntz and T.E. Haas, d-Electrons and two active thin film devices for achieving a solar energy economy 32 (1994) 421
Gomez-Daza, O., see Sebastian, P.J. 32 (1994) 159
Görig, B., see Kraft, A. 32 (1994) 151
Granqvist, C.G., Electrochromic oxides: a bandstructure approach 32 (1994) 369
Grätzel, M., see Hagfeldt, A. 32 (1994) 245
Grätzel, M., see McEvoy, A.J. 32 (1994) 221
Green, M.A., see Zhao, J. 32 (1994) 89
Green, M.A., see Zheng, G.F. 32 (1994) 129
Gruenbaum, P.E., V.T. Dinh and V.S. Sundaram, Gallium antimonide infrared solar cells with improved efficiency and manufacturability 32 (1994) 61
Gupta, A., S. Shirakata and S. Isomura, Studies on CuIn precursor for the preparation of $CuInSe_2$ thin films by the selenization technique 32 (1994) 137

Haas, T.E., see Goldner, R.B. 32 (1994) 421
Hagfeldt, A., S.-E. Lindquist and M. Grätzel, Charge carrier separation and charge transport in nanocrystalline junctions 32 (1994) 245
Hamakawa, Y., see Ma, W. 32 (1994) 351
Heckner, K.-H., see Kraft, A. 32 (1994) 151
Hodes, G., Quantized nanocrystalline photoelectrodes: A review 32 (1994) 323
Horiuchi, T., see Ma, W. 32 (1994) 351

Indelli, M.T., see Bignozzi, C.A. 32 (1994) 229
Isomura, S., see Gupta, A. 32 (1994) 137

Khiara, A., see Chahboun, N. 32 (1994) 213
Kraft, A., B. Görig and K.-H. Heckner, ITO coated n-GaAs electrodes for photoelectrochemical solar cells 32 (1994) 151
Kurianski, J., see Zheng, G.F. 32 (1994) 129

Lakshmikumar, S.T. and A.C. Rastogi, Selenization of Cu and In thin films for the preparation of selenide photo-absorber layers in solar cells using Se vapour source 32 (1994) 7
Lampert, C.M., Towards large-area photovoltaic nanocells: experiences learned from smart window technology 32 (1994) 307
Lim, C.C., see Ma, W. 32 (1994) 351
Lindquist, S.-E., see Hagfeldt, A. 32 (1994) 245
Look, E., see Qiang, H. 32 (1994) 405
Lund, P.D., see Peippo, K. 32 (1994) 95

Ma, W., T. Horiuchi, C.C. Lim, H. Okamoto and Y. Hamakawa, Optimum design and its experimental approach of a-Si//poly-Si tandem solar cell 32 (1994) 351
Mahapatra, P.K. and A.R. Dubey, Photoelectrochemical behaviour of mixed polycrystalline n-type CdS–CdSe electrodes 32 (1994) 29

McEvoy, A.J. and M. Grätzel, Sensitisation in photochemistry and photovoltaics 32 (1994) 221
Meinel, A.B., Bernard Seraphin and novel solar energy materials: In the beginning 32 (1994) 327
Mendoza, C.I., see Barrera, R.G. 32 (1994) 463
Morkoç, H., see Qiang, H. 32 (1994) 405

Nair, P.K., see Sebastian, P.J. 32 (1994) 159
Negi, B.S., see Sootha, G.D. 32 (1994) 169
Nobili, D., see Derdour, M. 32 (1994) 435

Okamoto, H., see Ma, W. 32 (1994) 351
Ovshinsky, S.R., The material basis of efficiency and stability in amorphous photovoltaics 32 (1994) 443
Özdemir, S. and Ş. Altındal, Temperature dependent electrical characteristics of Al–SiO_x–pSi solar cells 32 (1994) 115

Pashmakov, B., see Fritzsche, H. 32 (1994) 383
Peippo, K. and P.D. Lund, Optimal sizing of solar array and inverter in grid-connected photovoltaic systems 32 (1994) 95
Phillips, J.C., Dielectric relaxation and hydrogen diffusion in amorphous silicon 32 (1994) 335
Piprek, J., see Böer, K.W. 32 (1994) 395
Pollak, F.H., see Qiang, H. 32 (1994) 405

Qiang, H., E. Look, F.H. Pollak, K. Shum, Y. Takiguchi, R.R. Alfano, S.F. Fang and H. Morkoç, Photoreflectance Study of GaAs and GaAs/GaAlAs Single Quantum Wells Grown on (001) Si Substrates 32 (1994) 405

Raja, V.S., see Subbaramaiah, K. 32 (1994) 1
Rastogi, A.C., see Lakshmikumar, S.T. 32 (1994) 7
Ray, S., see Acharya, P.K. 32 (1994) 21
Robinson, S., see Zheng, G.F. 32 (1994) 129
Roos, A., see Andersson, K.E. 32 (1994) 199

Saha, S.C., see Acharya, P.K. 32 (1994) 21
Scandola, F., see Bignozzi, C.A. 32 (1994) 229
Sebastian, P.J., O. Gomez-Daza, J. Campos, L. Baños and P.K. Nair, The structural, transport and optical properties of screen printed Cu_xS thick films 32 (1994) 159
Seraphin, S., Defects in oxygen implanted silicon 32 (1994) 343
Shi, Z., see Zheng, G.F. 32 (1994) 129
Shirakata, S., see Gupta, A. 32 (1994) 137
Shum, K., see Qiang, H. 32 (1994) 405
Sievers, A.J., Characterization of the optical properties of complex systems 32 (1994) 451
Smestad, G., C. Bignozzi and R. Argazzi, Testing of dye sensitized TiO_2 solar cells I: Experimental photocurrent output and conversion efficiencies 32 (1994) 259
Smestad, G., Testing of dye sensitized TiO_2 solar cells II: Theoretical voltage output and photoluminescence efficiencies 32 (1994) 273
Smith, A.W., Analysis of textured solar cells at various angles of incidence: Fresnel concentration to 500 suns 32 (1994) 37
Sootha, G.D. and B.S. Negi, A comparative study of optical designs and solar flux concentrating characteristics of a linear fresnel reflector solar concentrator with tubular absorber 32 (1994) 169
Stevens, P.D. and R. Glosser, Anomalous time dependence and enhancement behavior of photoluminescence from porous Si 32 (1994) 429
Subbaramaiah, K. and V.S. Raja, Preparation and characterization of all spray-deposited p-$CuIn(S_{0.5}Se_{0.5})_2$/n-CdZnS:In thin film solar cells 32 (1994) 1

Sundaram, V.S., see Gruenbaum, P.E. 32 (1994) 61

Takiguchi, Y., see Qiang, H. 32 (1994) 405

Veszelei, M., see Andersson, K.E. 32 (1994) 199

Wang, A., see Zhao, J. 32 (1994) 89
Wang, A., see Zheng, G.F. 32 (1994) 129
Wynands, H. and M. Cocivera, Thermally stimulated current studies of electrodeposited CdSe thin films 32 (1994) 187

Zhao, J., A. Wang and M.A. Green, Series resistance caused by the localized rear contact in high efficiency silicon solar cells 32 (1994) 89
Zheng, G.F., Z. Shi, R. Bergmann, X. Dai, S. Robinson, A. Wang, J. Kurianski and M.A. Green, Thin film silicon solar cells on glass by substrate thinning 32 (1994) 129

ELSEVIER

Solar Energy Materials and Solar Cells 32 (1994) 483–494

Solar Energy Materials and Solar Cells

Subject Index

Amorphous silicon, hydrogenated amorphous Si, general material properties

Effect of hydrogen dilution in silane on light induced degradation of hydrogenated amorphous silicon films for solar photovoltaic applications, P.K. Acharya, H.D. Banerjee, K.L. Chopra, S.C. Saha and S. Ray 32 (1994) 21
Dielectric relaxation and hydrogen diffusion in amorphous silicon, J.C. Phillips 32 (1994) 335

Amorphous silicon, hydrogenated amorphous Si, general solar cell properties and device physics

Effect of hydrogen dilution in silane on light induced degradation of hydrogenated amorphous silicon films for solar photovoltaic applications, P.K. Acharya, H.D. Banerjee, K.L. Chopra, S.C. Saha and S. Ray 32 (1994) 21
Optimum design and its experimental approach of a-Si//poly-Si tandem solar cell, W. Ma, T. Horiuchi, C.C. Lim, H. Okamoto and Y. Hamakawa 32 (1994) 351
The material basis of efficiency and stability in amorphous photovoltaics, S.R. Ovshinsky 32 (1994) 443

Amorphous silicon, hydrogenated amorphous Si, optical studies in stability

Effect of hydrogen dilution in silane on light induced degradation of hydrogenated amorphous silicon films for solar photovoltaic applications, P.K. Acharya, H.D. Banerjee, K.L. Chopra, S.C. Saha and S. Ray 32 (1994) 21
Dielectric relaxation and hydrogen diffusion in amorphous silicon, J.C. Phillips 32 (1994) 335

Amorphous silicon carbide alloys

Optimum design and its experimental approach of a-Si//poly-Si tandem solar cell, W. Ma, T. Horiuchi, C.C. Lim, H. Okamoto and Y. Hamakawa 32 (1994) 351

Annealing

Defects in oxygen implanted silicon, S. Seraphin 32 (1994) 343

Cadmium oxide, CdO

Influence of certain defects on the behaviour of photovoltaic cells, C.H. Champness and C.H. Chan 32 (1994) 53

Cadmium selenide, CdSe

Photoelectrochemical behaviour of mixed polycrystalline n-type CdS–CdSe electrodes, P.K. Mahapatra and A.R. Dubey 32 (1994) 29
Thermally stimulated current studies of electrodeposited CdSe thin films, H. Wynands and M. Cocivera 32 (1994) 187
Quantized nanocrystalline photoelectrodes: A review, G. Hodes 32 (1994) 323

Cadmium sulfide, CdS

Photoelectrochemical behaviour of mixed polycrystalline n-type CdS–CdSe electrodes, P.K. Mahapatra and A.R. Dubey 32 (1994) 29
Quantized nanocrystalline photoelectrodes: A review, G. Hodes 32 (1994) 323

Cadmium telluride, CdTe

Fourier critical point analysis: extension to Gaussian lineshapes, D.E. Aspnes 32 (1994) 413

Carrier Lifetime

Thermally stimulated current studies of electrodeposited CdSe thin films, H. Wynands and M. Cocivera 32 (1994) 187

Chalcogenide compounds

Photoelectrochemical behaviour of mixed polycrystalline n-type CdS–CdSe electrodes, P.K. Mahapatra and A.R. Dubey 32 (1994) 29
Growth of $CuAlTe_2$ films by RF sputtering, N. Chahboun, K. El Assali, A. Khiara, E.L. Ameziane and T. Bekkay 32 (1994) 213

Cobalt oxides and sulfides, CoO, Co_3O_4, CoS

d-Electrons and two active thin film devices for achieving a solar energy economy, R.B. Goldner, F.O. Arntz and T.E. Haas 32 (1994) 421

Concentrated solar radiation

A comparative study of optical designs and solar flux concentrating characteristics of a linear fresnel reflector solar concentrator with tubular absorber, G.D. Sootha and B.S. Negi 32 (1994) 169
Characterization of the optical properties of complex systems, A.J. Sievers 32 (1994) 451

Conversion efficiency

Optimal sizing of solar array and inverter in grid-connected photovoltaic systems, K. Peippo and P.D. Lund 32 (1994) 95
Bernard Seraphin and novel solar energy materials: In the beginning, A.B. Meinel 32 (1994) 327
Donor–acceptor pairs to limit V_{oc}-improvement of photo-diodes, K.W. Böer and J. Piprek 32 (1994) 395

The material basis of efficiency and stability in amorphous photovoltaics, S.R. Ovshinsky 32 (1994) 443
Characterization of the optical properties of complex systems, A.J. Sievers 32 (1994) 451

Concentrators

Analysis of textured solar cells at various angles of incidence: Fresnel concentration to 500 suns, A.W. Smith 32 (1994) 37
A comparative study of optical designs and solar flux concentrating characteristics of a linear fresnel reflector solar concentrator with tubular absorber, G.D. Sootha and B.S. Negi 32 (1994) 169

Copper compounds

Selenization of Cu and In thin films for the preparation of selenide photo-absorber layers in solar cells using Se vapour source, S.T. Lakshmikumar and A.C. Rastogi 32 (1994) 7
Growth of $CuAlTe_2$ films by RF sputtering, N. Chahboun, K. El Assali, A. Khiara, E.L. Ameziane and T. Bekkay 32 (1994) 213

Copper indium selenide, $CuInSe_2$

Preparation and characterization of all spray-deposited p-$CuIn(S_{0.5}Se_{0.5})_2$/n-CdZnS:In thin film solar cells, K. Subbaramaiah and V.S. Raja 32 (1994) 1
Selenization of Cu and In thin films for the preparation of selenide photo-absorber layers in solar cells using Se vapour source, S.T. Lakshmikumar and A.C. Rastogi 32 (1994) 7
Studies on CuIn precursor for the preparation of $CuInSe_2$ thin films by the selenization technique, A. Gupta, S. Shirakata and S. Isomura 32 (1994) 137

Copper indium sulfide, $CuInS_2$

Preparation and characterization of all spray-deposited p-$CuIn(S_{0.5}Se_{0.5})_2$/n-CdZnS:In thin film solar cells, K. Subbaramaiah and V.S. Raja 32 (1994) 1

Copper sulfide, Cu_2S, Cu_xS

The structural, transport and optical properties of screen printed Cu_xS thick films, P.J. Sebastian, O. Gomez-Daza, J. Campos, L. Baños and P.K. Nair 32 (1994) 159

Crystal microstructure

Defects in oxygen implanted silicon, S. Seraphin 32 (1994) 343

Crystalline silicon, cells and related coatings

Series resistance caused by the localized rear contact in high efficiency silicon solar cells, J. Zhao, A. Wang and M.A. Green 32 (1994) 89

Crystalline silicon, MIS cells

Temperature dependent electrical characteristics of Al–SiO_x–pSi solar cells, S. Özdemir and Ş. Altındal 32 (1994) 115

Efficiency

Optimal sizing of solar array and inverter in grid-connected photovoltaic systems, K. Peippo and P.D. Lund 32 (1994) 95

Electrical conductivity of amorphous semiconductors

Reversible changes of the optical and electrical properties of amorphous InO_x by photoreduction and oxidation, H. Fritzsche, B. Pashmakov and B. Claflin 32 (1994) 383

Electrical conductivity of crystalline semiconductors

Aggregation equilibria in arsenic doped silicon, M. Derdour, G. Furlan and D. Nobili 32 (1994) 435

Electrical properties

The structural, transport and optical properties of screen printed Cu_xS thick films, P.J. Sebastian, O. Gomez-Daza, J. Campos, L. Baños and P.K. Nair 32 (1994) 159

Electrochemical electrodes

d-Electrons and two active thin film devices for achieving a solar energy economy, R.B. Goldner, F.O. Arntz and T.E. Haas 32 (1994) 421

Electrochemistry

Anomalous time dependence and enhancement behavior of photoluminescence from porous Si, P.D. Stevens and R. Glosser 32 (1994) 429

Electrochromism

Electrochromic oxides: a bandstructure approach, C.G. Granqvist 32 (1994) 369
d-Electrons and two active thin film devices for achieving a solar energy economy, R.B. Goldner, F.O. Arntz and T.E. Haas 32 (1994) 421

Electrodeposition

Thermally stimulated current studies of electrodeposited CdSe thin films, H. Wynands and M. Cocivera 32 (1994) 187

Electron-hole recombination

Donor–acceptor pairs to limit V_{oc}-improvement of photo-diodes, K.W. Böer and J. Piprek 32 (1994) 395

Ellipsometry

Fourier critical point analysis: extension to Gaussian lineshapes, D.E. Aspnes 32 (1994) 413

Emissivity

Characterization of the optical properties of complex systems, A.J. Sievers 32 (1994) 451

Energy gap

Photoreflectance Study of GaAs and GaAs/GaAlAs Single Quantum Wells Grown on (001) Si Substrates, H. Qiang, E. Look, F.H. Pollak, K. Shum, Y. Takiguchi, R.R. Alfano, S.F. Fang and H. Morkoç 32 (1994) 405

Gallium arsenide

ITO coated n-GaAs electrodes for photoelectrochemical solar cells, A. Kraft, B. Görig and K.-H. Heckner 32 (1994) 151

Donor–acceptor pairs to limit V_{oc}-improvement of photo-diodes, K.W. Böer and J. Piprek 32 (1994) 395

Photoreflectance Study of GaAs and GaAs/GaAlAs Single Quantum Wells Grown on (001) Si Substrates, H. Qiang, E. Look, F.H. Pollak, K. Shum, Y. Takiguchi, R.R. Alfano, S.F. Fang and H. Morkoç 32 (1994) 405

Gallium arsenide and gallium aluminium arsenide, GaAs, $Ga_{1-x}Al_xAs$

Photoreflectance Study of GaAs and GaAs/GaAlAs Single Quantum Wells Grown on (001) Si Substrates, H. Qiang, E. Look, F.H. Pollak, K. Shum, Y. Takiguchi, R.R. Alfano, S.F. Fang and H. Morkoç 32 (1994) 405

Gallium compounds

Gallium antimonide infrared solar cells with improved efficiency and manufacturability, P.E. Gruenbaum, V.T. Dinh and V.S. Sundaram 32 (1994) 61

Ge–Si alloys

The material basis of efficiency and stability in amorphous photovoltaics, S.R. Ovshinsky 32 (1994) 443

Glass substrates

Thin film silicon solar cells on glass by substrate thinning, G.F. Zheng, Z. Shi, R. Bergmann, X. Dai, S. Robinson, A. Wang, J. Kurianski and M.A. Green 32 (1994) 129

Glazings, plastics and glass

Zirconium nitride based transparent heat mirror coatings—preparation and characterisation, K.E. Andersson, M. Veszelei and A. Roos 32 (1994) 199

Grain boundaries and size

3D modelling of a reverse cell made with improved multicrystalline silicon wafers, J. Dugas 32 (1994) 71

Heat mirror coatings and transparent conductors

Zirconium nitride based transparent heat mirror coatings—preparation and characterisation, K.E. Andersson, M. Veszelei and A. Roos 32 (1994) 199

I–V characteristics

Influence of certain defects on the behaviour of photovoltaic cells, C.H. Champness and C.H. Chan 32 (1994) 53

Temperature dependent electrical characteristics of Al–SiO_x–pSi solar cells, S. Özdemir and Ş. Altındal 32 (1994) 115

II–VI semiconductors

Thermally stimulated current studies of electrodeposited CdSe thin films, H. Wynands and M. Cocivera 32 (1994) 187

III–V semiconductors

Gallium antimonide infrared solar cells with improved efficiency and manufacturability, P.E. Gruenbaum, V.T. Dinh and V.S. Sundaram 32 (1994) 61

ITO coated n-GaAs electrodes for photoelectrochemical solar cells, A. Kraft, B. Görig and K.-H. Heckner 32 (1994) 151

Photoreflectance Study of GaAs and GaAs/GaAlAs Single Quantum Wells Grown on (001) Si Substrates, H. Qiang, E. Look, F.H. Pollak, K. Shum, Y. Takiguchi, R.R. Alfano, S.F. Fang and H. Morkoç 32 (1994) 405

Indium selenide, InSe

Selenization of Cu and In thin films for the preparation of selenide photo-absorber layers in solar cells using Se vapour source, S.T. Lakshmikumar and A.C. Rastogi 32 (1994) 7

Indium tin oxide, In_2O_3: Sn

ITO coated n-GaAs electrodes for photoelectrochemical solar cells, A. Kraft, B. Görig and K.-H. Heckner 32 (1994) 151

Reversible changes of the optical and electrical properties of amorphous InO_x by photoreduction and oxidation, H. Fritzsche, B. Pashmakov and B. Claflin 32 (1994) 383

Light trapping (concentration)

Analysis of textured solar cells at various angles of incidence: Fresnel concentration to 500 suns, A.W. Smith 32 (1994) 37

Materials issues, general

Three-particle correlations in the optical properties of granular composites, R.G. Barrera and C.I. Mendoza 32 (1994) 463

Open-circuit voltage

Donor–acceptor pairs to limit V_{oc}-improvement of photo-diodes, K.W. Böer and J. Piprek 32 (1994) 395

Optical films

Electrochromic oxides: a bandstructure approach, C.G. Granqvist 32 (1994) 369

Optical properties

The structural, transport and optical properties of screen printed Cu_xS thick films, P.J. Sebastian, O. Gomez-Daza, J. Campos, L. Baños and P.K. Nair 32 (1994) 159
A comparative study of optical designs and solar flux concentrating characteristics of a linear fresnel reflector solar concentrator with tubular absorber, G.D. Sootha and B.S. Negi 32 (1994) 169
Zirconium nitride based transparent heat mirror coatings—preparation and characterisation, K.E. Andersson, M. Veszelei and A. Roos 32 (1994) 199
Bernard Seraphin and novel solar energy materials: In the beginning, A.B. Meinel 32 (1994) 327
Reversible changes of the optical and electrical properties of amorphous InO_x by photoreduction and oxidation, H. Fritzsche, B. Pashmakov and B. Claflin 32 (1994) 383
Fourier critical point analysis: extension to Gaussian lineshapes, D.E. Aspnes 32 (1994) 413
Three-particle correlations in the optical properties of granular composites, R.G. Barrera and C.I. Mendoza 32 (1994) 463

Optics

Dielectric relaxation and hydrogen diffusion in amorphous silicon, J.C. Phillips 32 (1994) 335

p–n heterojunctions

Preparation and characterization of all spray-deposited p-$CuIn(S_{0.5}Se_{0.5})_2$/n-CdZnS:In thin film solar cells, K. Subbaramaiah and V.S. Raja 32 (1994) 1

Photochemistry

Reversible changes of the optical and electrical properties of amorphous InO_x by photoreduction and oxidation, H. Fritzsche, B. Pashmakov and B. Claflin 32 (1994) 383

Photoconductivity

Thermally stimulated current studies of electrodeposited CdSe thin films, H. Wynands and M. Cocivera 32 (1994) 187

Photocurrent

Quantized nanocrystalline photoelectrodes: A review, G. Hodes 32 (1994) 323

Photoelectrochemical cells

Photoelectrochemical behaviour of mixed polycrystalline n-type CdS–CdSe electrodes, P.K. Mahapatra and A.R. Dubey 32 (1994) 29
ITO coated n-GaAs electrodes for photoelectrochemical solar cells, A. Kraft, B. Görig and K.-H. Heckner 32 (1994) 151
Quantized nanocrystalline photoelectrodes: A review, G. Hodes 32 (1994) 323

Photoelectrodes, metal chalcogenides

Photoelectrochemical behaviour of mixed polycrystalline n-type CdS–CdSe electrodes, P.K. Mahapatra and A.R. Dubey 32 (1994) 29

Photoluminescence

Anomalous time dependence and enhancement behavior of photoluminescence from porous Si, P.D. Stevens and R. Glosser 32 (1994) 429

Photovoltaic effects

Influence of certain defects on the behaviour of photovoltaic cells, C.H. Champness and C.H. Chan 32 (1994) 53
Optimal sizing of solar array and inverter in grid-connected photovoltaic systems, K. Peippo and P.D. Lund 32 (1994) 95
Temperature dependent electrical characteristics of Al–SiO_x–pSi solar cells, S. Özdemir and Ş. Altındal 32 (1994) 115

Photovoltaics, liquid junctions

ITO coated n-GaAs electrodes for photoelectrochemical solar cells, A. Kraft, B. Görig and K.-H. Heckner 32 (1994) 151

Plasma CVD coatings

Effect of hydrogen dilution in silane on light induced degradation of hydrogenated amorphous silicon films for solar photovoltaic applications, P.K. Acharya, H.D. Banerjee, K.L. Chopra, S.C. Saha and S. Ray 32 (1994) 21

Polycrystalline silicon

3D modelling of a reverse cell made with improved multicrystalline silicon wafers, J. Dugas 32 (1994) 71
Optimum design and its experimental approach of a-Si//poly-Si tandem solar cell, W. Ma, T. Horiuchi, C.C. Lim, H. Okamoto and Y. Hamakawa 32 (1994) 351

Reflector materials, glass and mirror production

A comparative study of optical designs and solar flux concentrating characteristics of a linear fresnel reflector solar concentrator with tubular absorber, G.D. Sootha and B.S. Negi 32 (1994) 169

Selective absorbers, composites and cermets

Characterization of the optical properties of complex systems, A.J. Sievers 32 (1994) 451

Selective absorbers, theory and general systems

Characterization of the optical properties of complex systems, A.J. Sievers 32 (1994) 451

Selective surfaces, theory and general materials

Bernard Seraphin and novel solar energy materials: In the beginning, A.B. Meinel 32 (1994) 327

Selenium

Influence of certain defects on the behaviour of photovoltaic cells, C.H. Champness and C.H. Chan 32 (1994) 53

Semiconductor device models

Influence of certain defects on the behaviour of photovoltaic cells, C.H. Champness and C.H. Chan 32 (1994) 53

3D modelling of a reverse cell made with improved multicrystalline silicon wafers, J. Dugas 32 (1994) 71

Series resistance caused by the localized rear contact in high efficiency silicon solar cells, J. Zhao, A. Wang and M.A. Green 32 (1994) 89

Semiconductor doping

Aggregation equilibria in arsenic doped silicon, M. Derdour, G. Furlan and D. Nobili 32 (1994) 435

Semiconductor thin films

Effect of hydrogen dilution in silane on light induced degradation of hydrogenated amorphous silicon films for solar photovoltaic applications, P.K. Acharya, H.D. Banerjee, K.L. Chopra, S.C. Saha and S. Ray 32 (1994) 21

Studies on CuIn precursor for the preparation of $CuInSe_2$ thin films by the selenization technique, A. Gupta, S. Shirakata and S. Isomura 32 (1994) 137

Defects in oxygen implanted silicon, S. Seraphin 32 (1994) 343

Reversible changes of the optical and electrical properties of amorphous InO_x by photoreduction and oxidation, H. Fritzsche, B. Pashmakov and B. Claflin 32 (1994) 383

Silicon

Thin film silicon solar cells on glass by substrate thinning, G.F. Zheng, Z. Shi, R. Bergmann, X. Dai, S. Robinson, A. Wang, J. Kurianski and M.A. Green 32 (1994) 129
Defects in oxygen implanted silicon, S. Seraphin 32 (1994) 343
Anomalous time dependence and enhancement behavior of photoluminescence from porous Si, P.D. Stevens and R. Glosser 32 (1994) 429

Silicon compounds

Aggregation equilibria in arsenic doped silicon, M. Derdour, G. Furlan and D. Nobili 32 (1994) 435

Solar cell arrays

Analysis of textured solar cells at various angles of incidence: Fresnel concentration to 500 suns, A.W. Smith 32 (1994) 37

Solar cells

Gallium antimonide infrared solar cells with improved efficiency and manufacturability, P.E. Gruenbaum, V.T. Dinh and V.S. Sundaram 32 (1994) 61
3D modelling of a reverse cell made with improved multicrystalline silicon wafers, J. Dugas 32 (1994) 71
Series resistance caused by the localized rear contact in high efficiency silicon solar cells, J. Zhao, A. Wang and M.A. Green 32 (1994) 89
Temperature dependent electrical characteristics of Al–SiO_x–pSi solar cells, S. Özdemir and Ş. Altındal 32 (1994) 115
Thin film silicon solar cells on glass by substrate thinning, G.F. Zheng, Z. Shi, R. Bergmann, X. Dai, S. Robinson, A. Wang, J. Kurianski and M.A. Green 32 (1994) 129
Growth of $CuAlTe_2$ films by RF sputtering, N. Chahboun, K. El Assali, A. Khiara, E.L. Ameziane and T. Bekkay 32 (1994) 213
Optimum design and its experimental approach of a-Si//poly-Si tandem solar cell, W. Ma, T. Horiuchi, C.C. Lim, H. Okamoto and Y. Hamakawa 32 (1994) 351
Donor–acceptor pairs to limit V_{oc}-improvement of photo-diodes, K.W. Böer and J. Piprek 32 (1994) 395

Solar concentrators

Analysis of textured solar cells at various angles of incidence: Fresnel concentration to 500 suns, A.W. Smith 32 (1994) 37
A comparative study of optical designs and solar flux concentrating characteristics of a linear fresnel reflector solar concentrator with tubular absorber, G.D. Sootha and B.S. Negi 32 (1994) 169

Space applications

Gallium antimonide infrared solar cells with improved efficiency and manufacturability, P.E. Gruenbaum, V.T. Dinh and V.S. Sundaram 32 (1994) 61

Spectral response

Three-particle correlations in the optical properties of granular composites, R.G. Barrera and C.I. Mendoza 32 (1994) 463

Spray coatings

Preparation and characterization of all spray-deposited p-CuIn$(S_{0.5}Se_{0.5})_2$/n-CdZnS:In thin film solar cells, K. Subbaramaiah and V.S. Raja 32 (1994) 1

Sputtered coatings

Zirconium nitride based transparent heat mirror coatings—preparation and characterisation, K.E. Andersson, M. Veszelei and A. Roos 32 (1994) 199

Structural properties

The structural, transport and optical properties of screen printed Cu_xS thick films, P.J. Sebastian, O. Gomez-Daza, J. Campos, L. Baños and P.K. Nair 32 (1994) 159
Dielectric relaxation and hydrogen diffusion in amorphous silicon, J.C. Phillips 32 (1994) 335

Ternary semiconductors

Studies on CuIn precursor for the preparation of $CuInSe_2$ thin films by the selenization technique, A. Gupta, S. Shirakata and S. Isomura 32 (1994) 137
Growth of $CuAlTe_2$ films by RF sputtering, N. Chahboun, K. El Assali, A. Khiara, E.L. Ameziane and T. Bekkay 32 (1994) 213

Textured surfaces

Analysis of textured solar cells at various angles of incidence: Fresnel concentration to 500 suns, A.W. Smith 32 (1994) 37

Thin film solar cells

Preparation and characterization of all spray-deposited p-CuIn$(S_{0.5}Se_{0.5})_2$/n-CdZnS:In thin film solar cells, K. Subbaramaiah and V.S. Raja 32 (1994) 1
Selenization of Cu and In thin films for the preparation of selenide photo-absorber layers in solar cells using Se vapour source, S.T. Lakshmikumar and A.C. Rastogi 32 (1994) 7
Thin film silicon solar cells on glass by substrate thinning, G.F. Zheng, Z. Shi, R. Bergmann, X. Dai, S. Robinson, A. Wang, J. Kurianski and M.A. Green 32 (1994) 129
Optimum design and its experimental approach of a-Si//poly-Si tandem solar cell, W. Ma, T. Horiuchi, C.C. Lim, H. Okamoto and Y. Hamakawa 32 (1994) 351
The material basis of efficiency and stability in amorphous photovoltaics, S.R. Ovshinsky 32 (1994) 443

Thin films

Thin film silicon solar cells on glass by substrate thinning, G.F. Zheng, Z. Shi, R. Bergmann, X. Dai, S. Robinson, A. Wang, J. Kurianski and M.A. Green 32 (1994) 129

d-Electrons and two active thin film devices for achieving a solar energy economy, R.B. Goldner, F.O. Arntz and T.E. Haas 32 (1994) 421
Anomalous time dependence and enhancement behavior of photoluminescence from porous Si, P.D. Stevens and R. Glosser 32 (1994) 429

Transition metals

d-Electrons and two active thin film devices for achieving a solar energy economy, R.B. Goldner, F.O. Arntz and T.E. Haas 32 (1994) 421

Vacuum deposition

Studies on CuIn precursor for the preparation of $CuInSe_2$ thin films by the selenization technique, A. Gupta, S. Shirakata and S. Isomura 32 (1994) 137

X-ray diffraction

The structural, transport and optical properties of screen printed Cu_xS thick films, P.J. Sebastian, O. Gomez-Daza, J. Campos, L. Baños and P.K. Nair 32 (1994) 159

Zirconium diboride, $ZrBr_2$ and zirconium nitride, ZrN

Zirconium nitride based transparent heat mirror coatings—preparation and characterisation, K.E. Andersson, M. Veszelei and A. Roos 32 (1994) 199